Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-82** **Date: 06-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 91

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-82** **Date: 01-01-19**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Page 1/1
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-82** **Date: 06-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-82** **Date: 06-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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BBMP, Bangalore - 97

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-82** **Date: 05-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-82** **Date: 05-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-23-82** **Date: 05-12-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-12-18

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-12-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-23-82** **Date: 05-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.46	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	6.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 19/12/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	150.29 X 151.20 X 151.39	22724	**8.062**	418.6	18.4	18.4
2	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.03 X 151.29 X 149.63	22849	**8.284**	426.8	18.7	
3	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.70 X 150.24 X 151.77	22792	**8.995**	414.7	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	150.95 X 149.13 X 150.19	22512	**8.911**	535.3	23.8	23.4
2	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.86 X 151.42 X 149.47	22691	**8.887**	511.2	22.5	
3	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.22 X 151.90 X 150.80	22667	**8.454**	542.2	23.9	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/12/2018

Lab ID	:	**CP-2019-01-23-82**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-12-18
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.07 X 151.28 X 149.42	22854	**8.062**	427.8	18.7	18.3
2	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	149.57 X 151.92 X 151.01	22723	**8.284**	410.1	18.0	
3	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	149.02 X 149.01 X 150.87	22205	**8.995**	400.8	18.1	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE
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Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	151.29 X 149.44 X 150.02	22610	**8.911**	529.2	23.4	22.9
2	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.30 X 151.47 X 149.55	22615	**8.887**	501.6	22.2	
3	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	150.68 X 149.15 X 149.35	22473	**8.454**	518.8	23.1	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 19/12/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	150.17 X 150.99 X 149.12	22674	**8.062**	426.1	18.8	18.5
2	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.52 X 151.87 X 150.00	23011	**8.284**	416.6	18.1	
3	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	150.07 X 150.00 X 149.34	22510	**8.995**	419.9	18.7	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.61 X 151.58 X 151.32	22678	8.911	525.8	23.2	23.3
2	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.55 X 149.24 X 149.15	22320	8.887	510.8	22.9	
3	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.64 X 149.16 X 150.36	22320	8.454	528.7	23.7	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Sig.....
Date.....

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 19/12/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	149.90 X 149.84 X 151.69	22461	**8.062**	406.4	18.1	18.2
2	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.05 X 149.74 X 149.42	22618	**8.284**	414.8	18.3	
3	Cement Concrete Pavement	M20	12/12/2018	19/12/2018	151.79 X 151.97 X 151.58	23068	**8.995**	416.8	18.1	

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Vidyaranyapura Sub Division BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-82** **Date: 09/01/2019**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-12-18

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	150.90 X 149.59 X 151.32	22572	8.911	534.7	23.7	23.0
2	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	151.69 X 151.47 X 149.12	22976	8.887	513.5	22.3	
3	Cement Concrete Pavement	M20	12/12/2018	09/01/2019	149.65 X 150.07 X 151.03	22458	8.454	518.1	23.1	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 22-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-18
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	20-12-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-01-23-82**	**Date: 22-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore	
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.	
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.	
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-12-18	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	20-12-18	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 22-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-18
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	20-12-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 28-12-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-18
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	27-12-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**66**	60 to 70
2	Softening Point, °C	**51.4**	Min. 40°C
3	Ductility, cm	**97**	Min. 75cm
4	Flash point, °C	**244**	Min. 220°C
	Fire point, °C	**272**	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2019-01-23-82** **Date: 03-01-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2108-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 01-01-18

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Date.....

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	01-01-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-01-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2019-01-23-82** **Date: 04-01-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.
Agency	:	Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2108-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-18
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-01-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-01-23-82** **Date: 07-01-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2108-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 05-01-18

Type of Mix : BC (Bituminous Concrete)

Date of test : 05-01-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	474	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	5.0
4	Average percentage	%	5.1	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID : **CP-RW-2019-01-23-82** **Date: 07-01-18**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.1	43.9	42-58
1.18	29	295	62.2	37.8	34-48
0.6	11	306	64.6	35.4	26-38
0.3	46	352	74.3	25.7	18-28
0.15	45	397	83.8	16.2	12-20
0.075	55	452	95.4	4.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-01-23-82** **Date: 11-01-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2108-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 09-01-18

Type of Mix : BC (Bituminous Concrete)

Date of test : 09-01-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.6
4	Average percentage	%	5.7	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Lab ID : **CP-RW-2019-01-23-82** **Date: 11-01-18**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	55	452	96.0	4.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

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Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Date.....

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-01-23-82** **Date: 16-01-19**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Package-1,(includes 8 works) 1)Improvementa to Roads and Drains at Krishna Green Apartment Cross Roads at Deshabandhunagara in Ward No 09 Vidyaranyapura. 2)Construction of Culverts in Ward No 09 Vidyaranyapura. 3)Improvements to Road and Drains at 1st Main Hanuman Layout Main Road in Ward No 09 Vidyaranyapura. 4)Improvements to Road and Drains at N T I Layout 3rd Cross in Ward No 09 Vidyaranyapura. 5)Improvements to Road and Drains at Resina from Deshabhandunagara in Ward No 09 Vidyaranyapura. 6)Construction of Toilet Block at Samudaya Bhavana and Balance Portion of Concrete Road at Kempegowdanagara in Ward No 09 Vidyaranyapura. 7)Improvements to Road and Drains at 9th Main Deshabhandunagara in Ward No 09 Vidyaranyapura. 8)Improvements to Road and Drains at Behind Kote Anjaneyaswamy Temple Cross Roads Virupakshapura in Ward No.09 Vidyaranyapura.

Agency : Sri.Alankar K.B, # 12, MSV Network Road, Near Shobha Apartment, Amruthahalli, Sahakaranagara (P), Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2108-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 14-01-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 14-01-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.60
4	Average percentage	%	5.5	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2019-01-23-82** **Date: 16-01-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

End of Report

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